INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2005/000356

A.	CLASSIFICATION OF SUBJECT MATTER							
Int. Cl. ⁷ :	F03D 1/06, 11/00, F03B 3/12							
According to International Patent Classification (IPC) or to both national classification and IPC								
B. FIELDS SEARCHED								
Minimum documentation searched (classification system followed by classification symbols)								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI: IPC: F03B, F03D with keywords: turbine, rotor, fan, impeller, blade, vane, foil, shape, section, surface, configuration, front, forward, project, upstream, lead, precede, extension								
C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category*	Citation of document, with indication, where app	ropriate, of the relevant passages	Relevant to claim No.					
X	DE 4136956 A1 (SCHUBERT) 13 May 199 Whole document	3	1, 4, 6, 9, 11					
А	US 4368007 A (ELY) 11 January 1983 Whole document							
			•					
٠								
F	urther documents are listed in the continuation	of Box C X See patent family anne	ex					
* Special categories of cited documents: "A." document defining the general state of the art which is not considered to be of particular relevance "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory								
"E" earlier application or patent but published on or after the international filing date underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken								
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an inventive step when the document is combined with one or more other involve an involve an inventive step when the document is combined with one or more other involve an involve a								
another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "&" document member of the same patent family								
"P" document published prior to the international filing date but later than the priority date claimed								
Date of the actual completion of the international search Date of mailing of the international search report E MAN 2005								
28 April 2005 - 3 MAY 2003 Name and mailing address of the ISA/AU Authorized officer								
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au KURT TOBLER								
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)						
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:						
1. Claims Nos.:						
because they relate to subject matter not required to be searched by this Authority, namely:						
2. Claims Nos.:						
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:						
3. Claims Nos.:						
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)						
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)						
This International Searching Authority found multiple inventions in this international application, as follows:						
 Claims 1-2, 4-12 are directed to a turbine or rotor having a plurality of blade vane units having a form defined by claim 1. 						
2. Claim 3 is directed to a turbine or rotor having integral blade vane units balanced for weight and certain forces.						
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.						
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.						
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:						
No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:						
Remark on Protest The additional search fees were accompanied by the applicant's protest.						
No protest accompanied the payment of additional search fees.						

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2005/000356

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member				
DE	4136956	DE	4030559	DE 4032614	DE	4207718
		DE	4305640			
US	4368007		NONE			

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX